Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



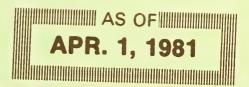
Water Supply Outlook For Idaho





Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES



IMPORTANT NOTICE INSIDE

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Snow surveyors making special measurements of the snowpack near Mt. St. Helens Volcano, Washington, April 1980.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602
	AV #8

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W, Calgary, Alberta T3C, 1A6.



WATER SUPPLY OUTLOOK

IMPORTANT NOTICE REVISION OF FREE MAILING LIST

IF YOU WISH TO CONTINUE to receive this publication, please turn to the back page, read the instructions, ———
TEAR OFF THE BACK COVER of this bulletin, sign your name, fold it on the heavy line, staple or tape, and ———
MAIL IMMEDIATELY.

IF THE BACK COVER IS NOT RETURNED WITHIN 30 DAYS, YOUR NAME WILL BE REMOVED FROM OUR LIST.

THIS NOTICE IS REQUIRED BY THE CONGRESSIONAL JOINT COMMITTEE ON PRINTING FOR THE ANNUAL REVISION OF FREE MAILING LISTS.

Please make any address corrections before mailing.



WATER SUPPLY OUTLOOK FOR IDAHO

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

NORMAN A. BERG

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST SOIL CONSERVATION SERVICE BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

Report prepared by

JACK A. WILSON, Snow Survey Supervisor GERALD A. BEARD, Asst. Snow Survey Supervisor KATHERN G. WOOTTON, Statistical Assistant

> SOIL CONSERVATION SERVICE SNOW SURVEY SECTION ROOM 345, 304 N. 8th. ST. BOISE, IDAHO 83702



WATER SUPPLY OUTLOOK for IDAHO







GENERAL SUMMARY FOR APRIL 1, 1981

Snow surveys performed near April 1 indicate a below to well below normal seasonal runoff in 1981. Water supplies for irrigation will be adequate on larger drainages having sufficient reservoir facilities. Serious to critical shortages are in prospect for small and low elevation streams without storage.

Major reservoirs are expected to fill prior to irrigation draw-down. Reservoirs south of the Snake River, such as Salmon Falls and Oakley will not fill. Many small reservoirs north of the Snake, such as the Mountain Home project facilities and other small reservoirs throughout the state are also unlikely to fill. A combination of 16 major irrigation reservoirs in the Snake Basin stand at 91 percent of capacity as of April 1. Normally they would contain only 71 percent of capacity on that date.

In general, the maximum yearly accumulation of snow water equivalent is recorded near April 1st. The 1981 snowpack is extremely variable with all watersheds reporting below to well below normal conditions. Many watersheds, particularly the small, low elevation drainages have a critical shortage of snow. The Hayden Lake watershed in Northern Idaho is bare and the Palouse drainage has only a 15 percent of normal snowpack. Other watersheds range from a low of 36 percent

of average on Montpelier Creek in Southeastern Idaho to 84 percent of normal on the Big Lost River drainage. The Big Lost watershed is the only area reporting above 70 percent of average snowpack.

Forecasts of April through September seasonal streamflow range from a low of 32 percent of normal for Montpelier Creek near Montpelier to a high of 76 percent of average for the Big Lost at Howell Ranch.

March's weather systems brought much needed precipitation to the extreme southern portion of Idaho. This area, which has had only 50 to 70 percent of normal precipitation for the water year, received up to 200 percent of normal for March. Grace received 193 percent, Pocatello 180 percent, and Twin Falls 164 percent. Elsewhere in the State, precipitation varied greatly for March from a high of 273 percent at Boise to a low of 26 percent at Porthill.

VALLEY PRECIPITATION $\underline{1}/$ Division Averages and Departures

In Inches

DRAINAGE		inter ch 1981	Fall - Winter Nov. 80 - Mar. 81		
DIVISIONS	Observed	Departure 2/	Observed	Departure 2/	
Kootenai, Canada & U.S.	1.37	- 0.37	13.69	+ 0.30	
Flathead	1.56	+ 0.03	9.99	- 0.74	
Clark Fork	0.93	- 0.29	6.46	- 1.54	
Pend Oreille-Spokane	1.45	- 1.08	15.12	- 2.43	
Upper Snake	1.04	- 0.48	6.99	- 3.12	
Snake River Plain	1.25	+ 0.47	4.15	- 0.93	
Salmon-Payette-Boise	1.64	- 0.09	11.57	- 0.22	
Clearwater	2.06	- 0.90	15.47	- 2.41	
Owyhee-Malheur	1.55	+ 0.70	5.37	- 0.30	

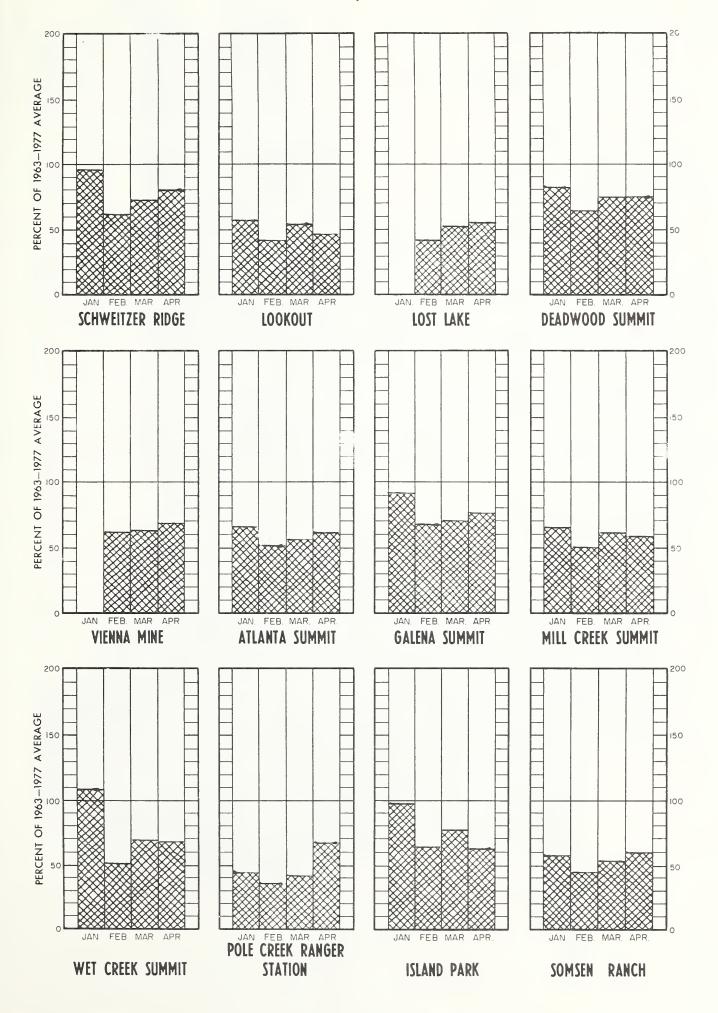
^{1/} Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

²/ Departure from 15-year (1963-77) drainage division average.

SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

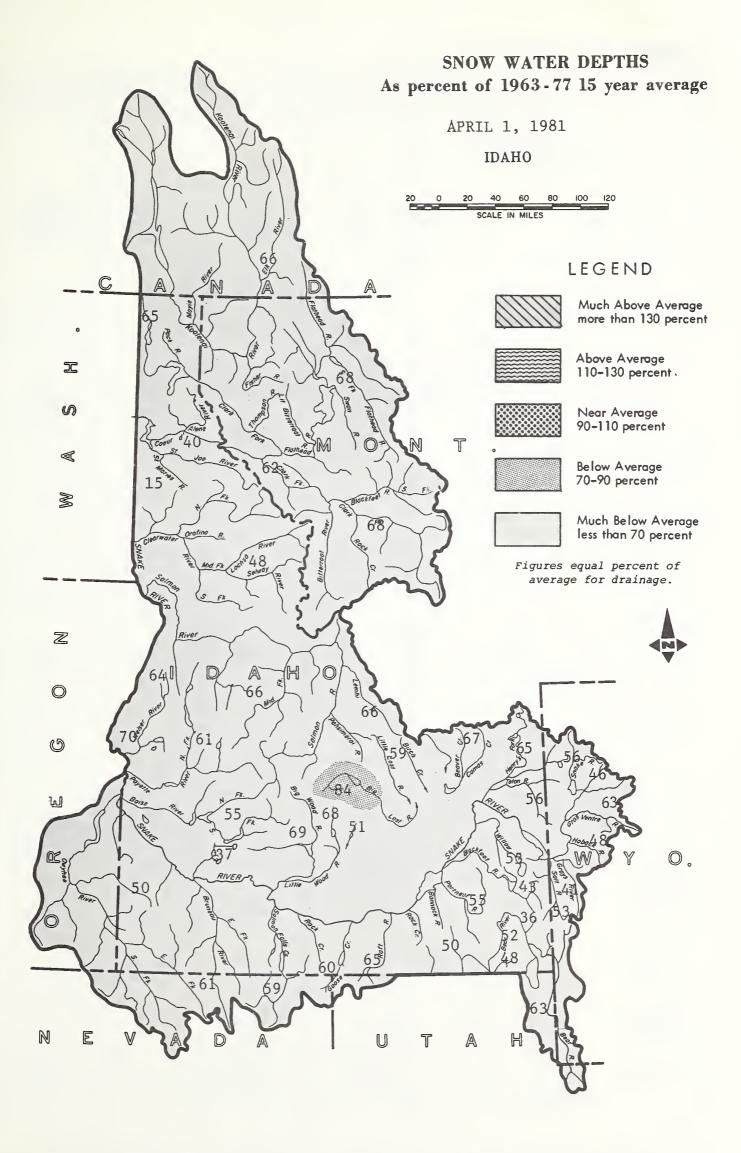
As Compared To 1963 — 1977 15 Year Average

APRIL 1, 1981



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF:		
	AVERAGED	LAST YEAR	1963-77 AVERAG	
UPPER COLUMBIA RIVER BASIN				
Kootenai River Pend Oreille River	46	78	66	
Clark Fork River	102 32	78 84	62	
Flathead River	31	87	68 68	
Priest River	3	65	65	
Spokane River	15	62	40	
LOWER SNAKE RIVER BASIN				
Palouse River	3	33	15	
Clearwater River	21	65	48	
Salmon River	27	68	66	
Lemhi River	6	67	66	
MIDDLE SNAKE RIVER BASIN - Northside				
Little Lost River Big Lost River	5 ~ 6	70 84	59	
Fish Creek	9		84	
Little Wood River	2 4	41 59	51 68	
Big Wood River	11 - 13	65	69	
Boise River	17 - 20	50	55	
Canyon Creek	3	34	37	
Payette River	14 - 17	57	61	
Weiser River	7 - 9	66	64	
Mann Creek	4 ~ 5	70	70	
MIDDLE SNAKE RIVER BASIN - Southside				
Raft River	5 - 7	62	65	
Goose-Trapper Creek	3 - 5	55	60	
Salmon Falls Creek	10	46	59	
Bruneau River	5	52	61	
Owyhee River Jordan Creek	7 2	21 39	32 50	
UPPER SNAKE RIVER BASIN				
Snake Basin - Above Palisades Reservoir	30	55	53	
Camas-Beaver Creeks	3	77	67	
Henrys Fork River	11	72	65	
Teton River	8 - 9	63	56	
Willow Creek	5 - 7	47	55	
Blackfoot River	3 - 6	45	43	
Portneuf River	4 - 10	48	55	
GREAT BASIN				
Bear River - Upper	6	51	63	
Bear River - Lower	14	39	46	
Montpelier Creek Mink Creek	6	35 42	36	
Mink Greek Cub River	7 3 - 4	42 41	52 48	
Malad River	4 ~ 6	37	50	
ALVOL	4 0	31	30	

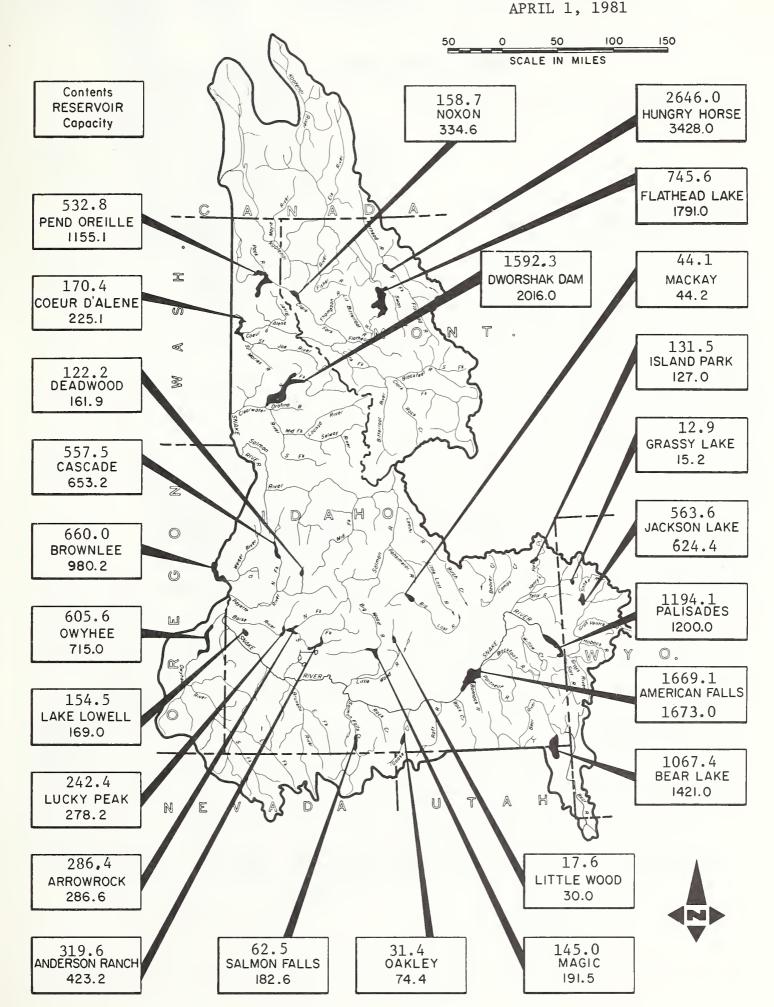


RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY		EASURED (First of M	nth)	
RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	1963-77 AVERAGE	
UPPER COLUMBIA BASIN					
Clark Fork - Pend Oreille					
Hungry Horse	3428.0	2646.0	2730.0	2016.0	
Flathead Pend Oreille	1791.0 1155.1	745.6 532.8	632.7 123.7	775.7 432.9	
Noxon	334.6	158.7	139.4	191.9	
Spokane					
Coeur d'Alene	225.1	170.4	87.1	149.9	
SNAKE BASIN					
Snake					
Jackson Lake	624.4	563.6	555.8	612.9	
Palisades American Falls	1200.0 1673.0	1194.1 1669.1	929.9 1608.6	815.9 1390.8	
American rails Island Park	127.0	131.5	121.3	122.5	
Grassy Lake	15.2	12.9	11.8	10.8	
Brownlee	980.2	660.0	614.2	395.5	
Goose-Trapper Creeks					
Oakley	74.4	31.4	42.7	33.1	
Salmon Falls Creek					
Salmon Falls	182.6	62.5	54.2	63.7	
Big Lost	,				
Mackay	44.2	44.1	29.4	32.9	
Big Wood					
Magic	191.5	145.0	49.9	129.9	
Little Wood					
Little Wood	30.0	28.3	17.6	18.5	
Fish Creek					
Carey Valley	14.4	9.4	4.7		
Boise					
Anderson Ranch	423.2	319.6	223.2	248.5	
Arrowrock	286.6	286.4	279.2	226.6	
Lucky Peak Lake Lowell (Deer Flat)	278.2 169.0	242.4 154.5	91.2 146.7	115.5 139.3	
Owyhee					
0wyhee	715.0	605.6	698.9	553.2	
Payette					
Cascade	653.2	557.5	311.8	305.4	
Deadwood	161.9	122.2	64.4	92.0	
Weiser					
Mann Creek	11.1	11.2	11.1		
Clearwater					
Dworshak	2016.0	1592.3	942.3		
GREAT BASIN					
Bear		1067	1007.0	1000 5	
Bear Lake	1421.0	1067.4	1036.2	1039.5	

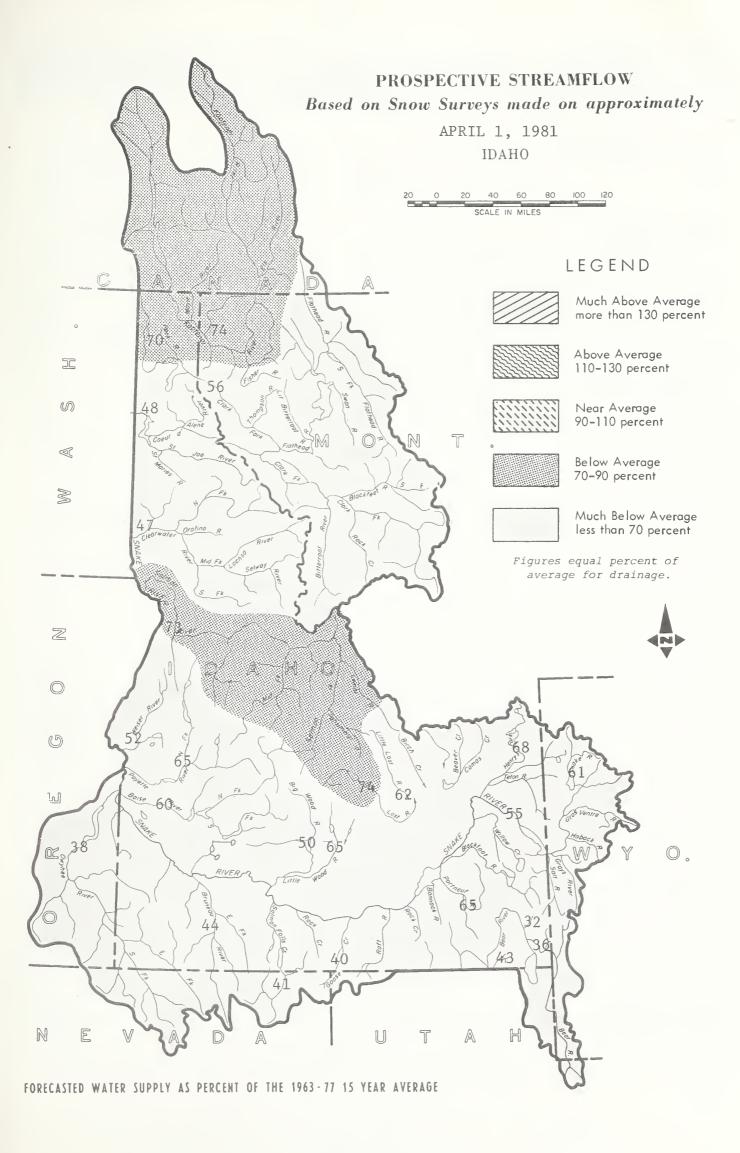
RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)



STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORE	CAST C	FORECAST	THOUSAND A	CRE FEET
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average +

	UPPER COLUM	BIA BASI	1		
KOOTENAI RIVER					
Leonia	(at)	6550 5690 4500	74 74 73	Apr-Sep Apr-Jul Apr-Jun	 8858 7708 6144
PEND OREILLE RIVER					
Clark Fork River Whitehorse Rapids	(at)	7850 7130 6000	57 57 56	Apr-Sep Apr-Jul Apr-Jun	 13781 12519 10633
$\frac{\text{Priest River}}{\text{Priest River }\underline{1}/}$	(at)	588	70	Apr-Jul	 841
SPOKANE RIVER Post Falls 2/	(at)	1400	48	Apr-Sep	 2910
St. Joe River Calder	(at)	640 620	49 50	Apr-Sep Apr-Jul	 1309 1238
	SNAKE RIVE	R BASIN			
SNAKE RIVER - MAIN STEM					
Moran <u>3</u> / Palisades Inflow <u>3</u> / Heise <u>4</u> / Blackfoot <u>5</u> /	(at) / (nr) (nr)	550 2200 2350 2610	61 57 55 57	Apr-Sep Apr-Sep Apr-Sep Apr-Jul	 903 3863 4247 4579
Henrys Fork					
Ashton <u>6</u> / Rexburg <u>7</u> /	(nr) (nr)	500 1000	68 66	Apr-Sep Apr-Sep	 737 1534
Portneuf River					
Topaz	(at)	70	65	Mar-Sep	 108
Oakley Reservoir Inflo	<u>w</u>	14.4	40	Mar-Sep	 36



STREAMFLOW FORECASTS			THIS YEAR	3	PAST RECORD		
	······································	FORE	CAST C	FORECAST	THOUSAND A	CRE FEET	
BASIN, STREAM and/or FORECAST	POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average +	
Salmon Falls Creek							
San Jacinto	(nr)	39	41	Mar-Sep		95	
		37	41	Mar-Jul		90	
		35	41	Mar-Jun		85	
Bruneau River							
Hot Springs	(nr)	110	44	Mar-Sep		251	
Little Lost River							
Howe	(nr)	28	62	Apr-Sep		45	
Wet Creek	(b1)	25	61	Apr-Sep		41	
wee order	(01)	16	62	Apr-Jun		26	
				•			
Big Lost River	()	170	7.6			225	
Howell Ranch	(at)	170	76	Apr-Sep		225	
		115	75	Apr-Jun		154	
Mackay 8/	(nr)	150	74	Apr-Sep		204	
				_			
Big Wood River		7.60	F.0				
Magic Reservoir		160	50	Apr-Sep		319	
Inflow 9/		167	50	Mar-Jul		332	
Little Wood River							
Carey	(nr)	70	65	Apr-Sep		107	
		65	66	Apr-Jul		99	
		57	66	Apr-Jun		87	
Boise River							
Twin Springs	(nr)	450	62	Apr-Sep		733	
1 - 7 3	()	420	62	Apr-Jul		676	
D . 10/		010					
Boise <u>10</u> /	(nr)	910	55	Apr-Sep		1656	
		850	55	Apr-Jul		1536	
		750	55	Apr-Jun		1360	
South Fork							
Anderson Dam 11/	(at)	300	48	Apr-Sep		622	
		280	48	Apr-Jul		582	
Owyhee River							
Gold Cr., Nv. 12/	(nr)	8	36	Apr-Jul		22	
Owyhee, Nv. 12/	\/	29	36	Apr-Jul		80	
Lake Owyhee		150	38	Apr-Sep	387	332	
net inflow 13/		139	38	Apr-Jul	352	431	
Rome Initial Initial	(at)	137	38	Apr-Jul		361	
December D'							
Payette River	(nr)	1210	65	Ann Con		1860	
Horseshoe Bend <u>14</u> /	(111.)	1210	رن	Apr-Sep		1000	

STREAMFLOW FORECASTS			THIS YEA	R	PAST	RECORD
		FORE	CAST C	FORECAST	THOUSAND A	CRE FEET
BASIN, STREAM and/or FOREC	AST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average +
North Fork Cascade 15/ Banks 15/	(at)	365 470	65 65	Apr-Sep Apr-Sep	 	564 726
Weiser River Weiser	(nr)	231	52	Apr-Sep		442
Salmon River Whitebird	(at)	5270	73	Apr-Sep		7196
Clearwater River Spalding	(at)	4040	47	Apr-Sep		8672
		GREAT BAS	SIN			
BEAR RIVER						
Harer	(at)	121	36	Apr-Sep		332
Montpelier Creek Montpelier	(nr)	4	32	Apr-Sep		12.4
Cub River Preston	(nr)	21.5 20.0	43 43	Apr-Sep Apr-Jul		50.0 47.0

- 1/ Observed flow corrected for storage in Priest Lake.
- 2/ Observed flow corrected for storage in Coeur d'Alene Lake.
- 3/ Corrected for storage in Jackson Lake
- 4/ Corrected for storage in Jackson Lake and Palisades.
- 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
- 6/ Corrected for storage in Henry's Lake and Island Park Reservoir.
- 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
- 8/ Observed flow corrected for storage in Mackay Reservoir.
- 9/ Combined flow Big Wood River nr. Bellevue and Camas Creek near Blaine
- 10/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
- 11/ Corrected for storage in Anderson Ranch Reservoir.
- 12/ Corrected for storage in Wildhorse Reservoir.
- 13/ From Water & Power Resources Service records of inflow.
- 14/ Corrected for storage in Cascade and Deadwood Reservoirs.
- 15/ Corrected for storage in Cascade Reservoir.

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

SNOW			<u> </u>	·	AST RECORD		
DRAINAGE BASIN and	or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Conte	
NAME		Elevation	Or Survey		(menes)	Last Year	Average
Above Burke		4100	3/31	25	8.4	17.4	24.7*
Above Gilmore		8240	3/31	35	8.9	9.2	10.6
Above Roland		4350	4/4	40	13.6	25.4	35.2*
Antelope Ridge		6180	3/27	0	0.0	4.4	6.2
Aspen Grove		6500	3/26	31	9.1	15.1	12.1*
Aspen Hall Pass (A)		8200	3/31.	37	8.0	11.8	10.6*
Atlanta Summit		7600	4/2	71	22.0	37.1	36.2
Atlanta Townsite		5280	4/2	7	2.7	12.1	
Austin Brothers Ranch		6400	3/30	0	0.0	9.0	8.9
Bad Bear		4940	3/31	12	4.0	15.1	13.9
Badger Gulch		6660	4/4	23	7.2	15.7	13.1
Banner Summit		7040	4/2	71	22.2	32.2	
Battle Creek (A)		5710	4/7	0	0.0	0.0	1.7
Bear Basin		5350	3/30	44	11.8	21.5	10.0
Bear Canyon	N 1 -	7900	4/2	63	16.8	20.0	19.9
Bear Creek	Nevada	8040	3/31 4/2	50 113	13.9 41.9	23.9	21.3
Bear Mountain Bear Saddle		5400 6180	3/29	48	18.5	47.6 27.0	64.2*
Beaverdam Creek		6120	3/28	19	4.3	12.2	
Below Roland		3920	4/4	0	0.0	12.4	16.5*
Bennett Mountain		6560	3/28	34	11.1	17.2	17.5
Benton Meadow		2370	3/30	0	0.0	4.6	5.0
Benton Spring		4920	3/30	26	9.5	15.9	20.2
Big Creek Summit	*	6580	3/27	72	23.8	41.8	37.5
Big Springs		6400	4/1	38	12.9	18.3	22.0
Birch Creek		6800	3/26	18	6.9	11.6	11.4*
Black Canyon		7960	4/1	72	24.4	34.8	35.4*
Black Moose		8160	4/1	70	25.2	37.0	40.3*
Blue Ledge Mine		6900	3/30	35	11.0	14.4	17.8
Blue Ridge		6780	3/25	39	12.6	21.7	
Bogus Basin		6340	4/1	46	14.3	30.5	24.5
Bogus Basin Road		5540	4/1	5	0.7	3.5	2.2
Bone		6200	3/25	0	0.0	7.8	7.2*
Borah (A)		8250	3/31	18	4.7	7.3	
Bostetter Ranger Station		7500	4/4	48	12.5	20.6	20.2
Boulder Creek		5440	3/31	33	11.6	18.0	25.1
Boy Scout Camp		7740	4/4	43	13.4	17.8	15.8
Breezy Saddle		5010	4/8	52	15.4	21.6	
Brockman Station		6430	3/25	0	0.0	11.7	/O 6+
Brundage Mountain		7560	3/30	99	34.0	52.2	48.6*
Buck Meadows Bull Basin (A)		5650 5480	3/31	52	14.5	21.4 0.1	31.2* 0.4
Camas Creek Divide		5710	4/7 3/28	0 0	0.0	12.5	8.8*
Camp Creek		6580	3/31	35	9.6	10.2	12.0
Cayuse Airstrip		3500	3/31	0	0.0	5.2	9.8
Cedar Creek		6820	3/31	13	4.0	11.5	10.0
Chilco Ridge		3650	3/30	0	0.0	2.3	
Chimney Creek		6400	3/28	17	6.8	16.8	
Christensen Ranch		5560	3/28	18	4.1	12.7	7.6
Clear Creek Meadows	Utah	9420	4/4	65	18.1	19.8	23.6
Cliff Canyon		7200	3/28	16	4.3	10.2	
Cold Springs		7000		No report		30.4	
Conie Ridge		3900	3/30	0	0.0	2.9	
Coolwater Mountain		6040	3/31	67	18.9	28.7	33.0
Copes Camp		7520	3/31	25	5.8	9.4	8.8
Copper Basin		7640	4/2	33	8.9	9.7	10.9
Copper Ridge		4820	4/1	17	3.6	10.2	29.7
Corner Creek		3150	3/30	0	0.0	4.5	
Couch Summit		6840	3/28	39	13.0	21.7	18.7
Cozy Cove		5380	4/2	24	8.3	17.8	16.6
Crater Meadows		5960	3/31	69	21.9	34.6	46.3
Crawford Ranger Station		4860	3/27	0	0.0	6.5	6.1
Crooked Fork		3610	3/31	0	0.0	8.5	14.1*
Cub River Ranger Station		5450 6270	3/25	9	3.2	10.4	6.9
Daniels Creek	Llyomina	6270	3/28 3/27	6 50	2.0 14.9	9.6 23.2	24.0*
Darby Canyon Deadline	Wyoming	8250 6900		50 38		34.2	22.3
Deadman Gulch		6900 5600	3/31 3/28	38 23	12.3 8.2	16.2	16.8*
			3/28 4/2	23 29	10.6	17.9	15.6
Deadwood Airstrip Deadwood Summit		5360 6860	4/2 4/2	99	35.3	51.1	47.5
Deadwood Summit Dempsey Creek		6100	4/2 3/29	28	9.2	13.7	13.0
Dollarhide Summit		8420	3/29 4/2	62	18.5	25.9	25.1
Double Springs Pass (A)		8400	3/31	30	7.9	9.7	11.1*
opitingo tudo (n)		0.700	J/ JI	50	1.0	7.1	

⁽b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average. (A) Aerial observation Water content estimated.

	SNOW COURCE		THIS YEAR PAST RECORD				
NAME	DRAINAGE BASIN and or SNOW COURSE		Date	Snow Depth	Water Content	Water Content (inches)	
NAME		Elevation	of Survey	(Inches)	(Inches)	Last Year	Average
Dry Basin		7820	3/28	60	17.0	38.4	30.2
Dry Creek Flat		6360	3/28	6	0.9	10.4	5.3
Dry Fork		7220	3/31	36	12.4	17.4	16.9*
East Creek		7000	3/28	26	6.7	12.0	
East Twin		4130	4/1	4	0.6	4.2	9.8
Elk Butte		5550	4/8	59	16.1	25.4	38.8
Emigrant Summit		7390	3/30	43	12.6	27.6	26.0
Emigration Canyon		6500	3/30	16	5.4	14.3	11.1
Fairview Guard Station		6750	3/31	0	0.0	3.2	3.2
Fish Lake Airstrip		5650	3/31	63	19.4	32.0	41.2
Fishpole Lake		9300	4/2	72	22.7	24.9	21.1*
Forty-nine Meadows		4830	4/8	48	16.2	19.7	32.5
Fourth of July Summit		3200	3/30	0	0.0	3.9	8.8
Fox Creek	Nevada	6750	3/31	13	3.9	12.8	9.9*
Franklin Basin		8040	3/26	49	14.4	32.1	28.2
Freds Mountain	Wyoming	8150	3/31	54	15.3	23.8	20.7*
Galena		7440	3/31	40	15.0	19.5	19.5
Galena Summit		8780	3/31	61	19.0	23.7	25.2
Garfield Ranger Station		6560	3/31	17	6.4	13.9	10.2
George Creek	Utah	8840	4/4	55	15.5		
Gibbons Pass	Montana	7100	3/26	53	17.8	20.4	24.8
Giveout		6860	4/3	22	4.8	14.0	13.0
Goat Creek	Nevada	8880	3/31	43	11.4	22.2	18.6
Goat Lake		6500	3/31	87	25.8	38.2	49.3
Graham Guard Station		5690	4/2	20	7.1	16.6	
Graham Ranch		6270	3/31	37	12.2	15.6	14.4
Granite Peak		6000	4/8	92	22.1	33.8	46.8
Grassy Lake	Wyoming	7265	3/30	65	22.7	31.3	36.6
Hall Creek		7560	3/31	19	4.8	8.2	5.9*
Halverson Creek		4850	4/2	99	36.4	41.2	44.2*
Hell Creek		7350	3/26	28	8.8	15.5	
Hemlock Butte		5810	4/8	83	23.8	35.0	51.3
Hilts Creek		8000	3/27	42	11.0	12.2	
Hoodoo Basin	Montana	6000	3/31	97	34.4	47.2	53.6*
Hoodoo Creek	Montana	5900	3/31	84	28.5	42.8	49.9
Horseshoe Basin		8000	3/28	59	17.3	39.8	25.6
Howell Canyon		7980	4/4	39	12.7	26.9	26.1
Hummingbird Springs	Nevada	8870	3/31	55	14.3	28.1	23.7
Hyde Pasture (A)		5760	4/7	0	0.0	2.3	3.2
Hyndman Creek		7440	4/2	47	12.8	16.7	
Indian Grove		7560	4/4	29	7.4	15.2	
Iron Bog		7650	3/31	30	11.0	14.8	14.1
Iron Mine Creek		6300	3/31	22	8.8	12.6	10.5
Irving Creek		7040	3/30	23	5.7		
Island Park		6290	4/1	32	10.7	16.0	17.2
Jackpine Creek	Wyoming	7350	3/30	38	11.9	20.1	23.0*
Jackson Peak		7070	4/2	72	21.7	35.0	33.1
Johnson Creek		6730	3/30	31	8.4	16.3	
Kellogg Peak		5560	4/4	45	13.6	25.0	35.4
Kilgore		6320	3/30	23	7.1	11.2	11.5
Kit Carson Pasture		4950	3/28	7	2.4	8.7	9.1
Kruse Meadow		4780	3/25	0	0.0	9.7	
Lake Fork		5290	3/29	25	8.8	15.1	16.9
Latham Springs		7630	4/1	67	23.8	31.2	34.8
Leadbelt		6700	3/31	20	8.6	10.6	9.4
Leatherman Pass		9860	3/31	71	19.9	19.8	26.1*
Lemhi Pass	Montana	7480	4/2	26	7.0	9.5	9.9
Lemhi Ridge	Montana	8100	4/2	36	8.9	10.4	10.9*
Liberty Spring		8600	3/28	71	17.8	40.7	39.8
Little Beaver		6970	4/3	24	6.6	16.1	16.3
Little Camas Flat		4940	3/28	0	0.0	2.7	4.0
Logger Springs		8120	4/4	56	12.9	21.6	
Lolo Pass		5240	3/31	44	14.1	26.3	32.6
Lookout		5140	3/31	50	17.4	26.4	37.1
Lost Garfield		6600	3/31	0	0.0	4.2	3.0
Lost Lake		6110	4/8	113	34.3	40.3	61.8*
Lost-Wood Divide		7900	4/2	60	18.3	24.3	24.8
Lower Elkhorn		6960	3/28	23	6.9	18.9	14.0*
Lower Home Canyon		7640	4/3	24	6.5	15.3	14.9*
Lower Pebble		5780	3/29	14	5.4	15.0	13.3*
Lower Sands Creek		3120	3/31	11	4.2	11.5	21.9
Lucky Dog		6860	4/1	49	17.6	22.2	26.0

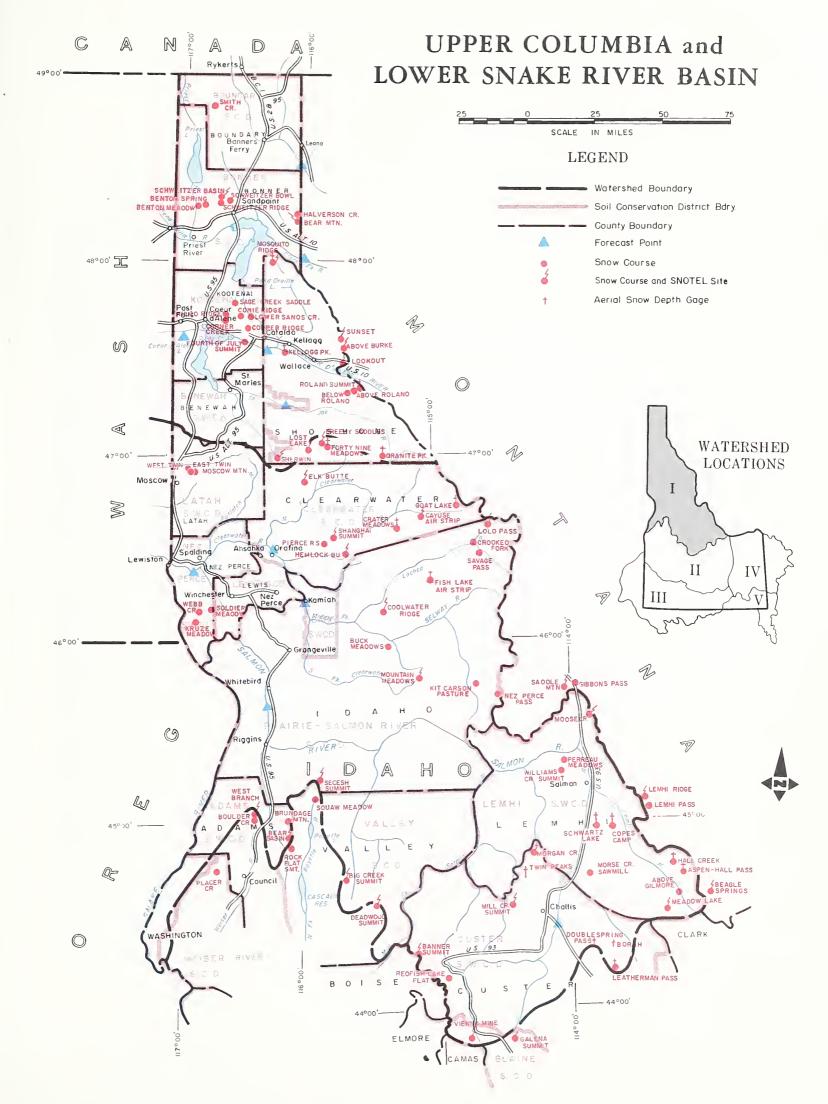
⁽b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average. (A) Aerial observation Water content estimated.

DRAINAGE BASIN and or	SNOW COURSE		Date	Snow Depth	Water Content	Water Content (inches)		
NAME		Elevation	of Survey	(Inches)	(Inches)	Last Year	Average	
		6000	0./01	0.7	11.0	01.0		
Magic Mountain		6880	3/31	37	11.9	21.3	19.2	
Mann Creek		6080	3/29	48	18.8	25.6	27.7*	
Mascot Mine		7780 6720	4/2 3/30	49	13.2 11.3	15.6	15.5	
McRenolds Reservoir Meadow Lake		9150	3/30	36 55	15.3	16.8 16.0	20.7*	
Mill Creek Summit		8800	3/31	50	14.3	21.8	20.8 24.1	
Mink Creek		6410	3/29	44	12.4	20.9	18.3	
Montpelier Creek		6540	4/3	0	0.0	8.8	8.4	
Moonshine		7440	3/31	30	6.8	9.4	11.2	
Moores Creek Summit		6100	3/31	56	17.6	35.6	33.6	
Moose Creek		6200	3/31	38	10.8	12.2	17.1	
Morgan Creek		7600	3/31	36	9.0	12.8	14.9	
Morse Creek Sawmill		7120	3/31	31	8.1	9.7	9.5	
Moscow Mountain		4410	4/1	16	4.3	11.0	18.0	
Mosquito Ridge		5200	4/4	77	25.6	28.2	40.2	
Mount Baldy		8920	3/30	59	16.9	20.2	21.4	
Mountain Meadows		6360	3/31	44	11.2	16.6	26.1*	
Mud Creek		7100	3/25	34	12.1			
Mud Flat		5730	3/27	0	0.0	8.0	4.9	
Muldoon		6320	3/30	4	1.1	9.5	7.1	
Nez Perce Pass	Montana	6570	3/28	28	8.8	13.8		
One Mile Summit		7330	4/4	22	5.3	7.5	7.6	
Oxford Mountain		6800	3/28	20	5.1	12.3	9.5	
Packsaddle Springs		8200	3/27	53	16.8	****		
Pebble Creek		6550	3/29	20	6.9	20.3	16.7	
Perreau Meadows		8500	3/30	42	11.2	16.2		
Phillips Bench		8200	3/30	57	15.6	26.0	30.6*	
Pierce Ranger Station		3080	3/31	0	0.0	6.9	10.6	
Pine Creek Pass		6810	3/31	33	8.7	14.6	18.3	
Placer Creek		5860	3/28	39	12.2	24.2	18.8	
Pole Creek Ranger Station		8360	3/31	49	14.9	24.2	22.5	
Prairie		4800	3/29	0	0.0	0.0	3.4	
Rammel Ridge		8240	3/30	66	22.3	11 0		
Red Canyon (A)		6520	3/30	T	0.1	11.0	5.0	
Red Fish Lake Flat Road Creek		6560 5380	3/27 4/2	24 7	7.2 2.4	14.4 10.1	10.9* 9.2*	
Robinson Creek Ridge		6220	4/2 3/29	7 39	15.8	20.0	21.3*	
Rock Flat Summit		5310	3/29	43	10.8	18.2	19.6	
Roland Summit		5120	3/30 4/4	44	13.0	30.2	40.1*	
Sage Creek Saddle		4080	3/30	3	0.5	11.3	40.1"	
Savage Pass		6170	3/31	52	17.6	24.8	28.6	
Sawmill Canyon		7000	3/27	25	6.8	8.2	8.1	
Sawtell Mountain		8720	3/31	78	26.0	35.5	35.1*	
Schwartz Lake		8540	3/31	37	9.0	13.1	13.8	
Schweitzer Bowl		4800	3/31	3,	Plowed Out	25.1	30.9*	
Schweitzer Ridge		6200	3/31	90	38.1	52.4	47.8*	
Secesh Summit		6520	3/28	55	22.4	43.3	37.2*	
Sedgwick Peak		7850	3/28	46	11.1	21.3		
Seventy-six Creek	Nevada	7100	3/31	20	6.8	15.4	11.4	
Shanghai Summit		4570	4/8	23	5.8	16.0	27.2	
Sheep Mountain		6570	3/25	18	6.2	14.4	13.9*	
Sherwin		3200	3/31	1	0.4	6.7	13.8	
Shoshone Basin		5810	3/31	5	1.5	7.7	5.1*	
Silver City		6400	3/27	18	6.0	16.1	15.4	
Slug Creek Divide		7230	3/30	33	9.0	19.5	18.0	
Smith Creek		4800	3/30	82	34.2	39.6	48.8	
Soldier Meadow		4650	3/25	0	0.0	8.7	/	
Soldier Ranger Station		5740	3/28	0	0.0	11.6	10.3	
Somsen Ranch		6840	3/30	36	9.0	15.4	15.1	
South Mountain		6500	3/27	24	8.2	20.4	13.0	
Squaw Flat		6240	3/29	47	15.6	25.2		
Squaw Meadow		5900	3/28	58	22.2	45.1	37.4	
State Line ,		6660	3/31	33	7.7	14.2	15.3	
Stickney Mill		7430	4/2	35	10.1	10.8	10.6	
Strawberry Creek		5820	3/30	15	4.9	12.3	10.2	
Strawberry Mink Divide		6720	3/28	40	10.0	29.7	21.9	
Sturgill Ridge		6680	3/29	55	21.4	31.2	32.6*	
Sublett		5950	4/4	16	5.6	12.2	11.1	
Succor Creek (A)		6200	4/7	17	5.1			
Sulphur Peak		7070	3/30	31	8.6	18.5		
Sunset		5540	4/4-	62	17.0	23.8	36.2	
							18.1 17.1*	
Swede Peak Targhee Pass		7640 6980	3/30 3/31	46 31	13.0	20.2	1	

⁽b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average. (A) Aerial observation Water content estimated.

WONS				THIS YEAR	Y	PAST RECORD	
DRAINAGE BASIN an	DRAINAGE BASIN and or SNOW COURSE		Date	Snow Depth	Water Content	Water Content (inches)	
NAME		Elevation	of Survey	(Inches)	(Inches)	Last Year	Average
Telfer Ranch		5840	3/30	0	0.0	8.7	6.8
Teton Pass W.S.	Wyoming	7740	3/30	54	15.6	20.7	27.7*
Tex Creek		6650	3/26	28	7.6	10.8	9.7*
Thorson Cabin		5320	3/29	31	11.4	18.0	14.3*
Trinity Mountain		7770	4/2	80	26.5	45.2	43.2
Tripod Summit		5260	3/27	25	10.1	19.4	19.7
Twin Peaks (A)		9190	3/31	51	14.6	22.8	28.0
Upper Elkhorn		7140	3/28	44	11.4	22.0	19.5*
Upper Home Canyon		8560	4/3	44	12.1	25.0	25.1*
Valley View		6680	3/31	32	9.9	15.2	18.4
Vaught Ranch (A)		5830	4/7	0	0.0	0.0	1.7*
Vienna Mine		8960	4/2	86	26.8	41.1	38.7*
Vi Pont	Utah	7670	4/4	37	9.5	17.0	15.1*
War Eagle (A)		7280		No report		27.5	25.1*
Webb Creek		4720	3/25	0	0.0	10.1	
Webber Creek		6700	3/30	24	5.4		
West Branch		5560	3/31	46	17.5		
West Twin		4220	4/1	4	0.8	2.0	9.1
Wet Creek Summit		7680	3/27	37	9.3	11.4	13.6
Whiskey Flat		6960	4/3	5	1.8	11.1	9.4
White Elephant		7710	3/31	58	18.5	26.4	25.6*
Williams Creek Summit		7990	3/30	34	8.0	10.8	13.5
Willow Flat		6070	3/25	18	6.6	20.4	14.8
Wilson Creek	Nevada	7500	3/31	15	4.2	16.0	11.9
Wood Canyon Divide		7450	3/30	37	9.7	20.3	
Worm Creek		6620	3/28	41	11.6	25.2	





INDEX to SNOW COURSES

UPPER COLUMBIA BASIN

LOWER SNAKE BASIN

No.	Stat	e Name	Sec.	Twp. or And	Rge.	Elev	No.	State	e Name	Sec.	Twp. or And	Rge.	Elev
KOOTENAI RIVER									PALOUSE RIV	E R			
16A7 16A1	I	Halverson Creek Smith Creek	3 29	57N 64N	3E 3W	4850 4800	16C3 16C2 16C4	I I I	East Twin Moscow Mountain West Twin	13 18 14	40N 40N 40N	5W 4W 5W	4130 4410 4220
	PEND OREILLE-PRIEST RIVER						CLEARWATER R	IVER					
16A8S	I	Bear Mountain	9	57N	3E	5400					/ 027	1.5	5010
16A2 16A3	I	Benton Meadow Benton Spring	27	58N	4W	2370	15B2OSR 15D5		Breezy Saddle Buck Meadows	1 27	43N 31N	4E 8E	5010 5650
16A10S	I	Schweitzer Basin	30 18	58N 58N	3W · 2W	4920 6090	15C3S	I I	Cayuse Airstrip	4	38N	11E	3500
16A6	Ī	Schweitzer Bowl	20	58N	2W	4800	15C7S	1	Coolwater Mountain	31	33N	8E	6040
16A5	I	Schweitzer Ridge	19	58N	2W	6200	15C9A	Ī	Crater Meadows	11	37N	9E	5960
							14C11	I	Crooked Fork	27	37N	14E	3610
		HAYDEN C	REEK				16C15	Ι	Elk Butte	6	40N	3E	5550
1 (0 0	,	Cliff Pil					15C2A	Ι	Fish Lake Airstrip	34	35N	11E	5650
16B8	1 1	Chilco Ridge	15	52N	2W	3650	15B3A	I	Forty-nine Meadows	6	43N	5E	4830
16B7 16B9	I	Conie Ridge Corner Creek	22 22	52N 52N	2W 2W	3900	14C9A	I	Goat Lake	4	38N	13E	6500
16B6	1	Sage Creek Saddle	10	52N	2 W	3150 4080	16C6SR 15C10S	1 M	Hemlock Butte Hoodoo Basin	7 17	36N 14N	7E 27W	5810 6000
2000	_		10	J211	2. **	4000	15C1	M	Hoodoo Creek	16	14N	27W	5900
		SPOKANE	DI\/ED				14D3	I	Kit Carson Pasture	4	27N	15E	4950
			NIVLN				16C17	1	Kruze Meadows	11	32N	4W	4780
15B8	1	Above Burke	11	48N	5E	4100	14C5S	Ι	Lolo Pass	16	38 N	15E	5240
15B7	1	Above Roland Below Roland	35	47N	6E	4350	15B14S	Ι	Lost Lake	9	43N	4E	6110
15B6 16B2	$\frac{1}{1}$	Copper Ridge	35 6	47N 50N	6E	3920	15D6S	I	Mountain Meadows	9	27N	10E	6360
16B2	1	Fourth of July Summit	6	49N	1W 1W	4820 3200	14D1 15C5	M I	Nez Perce Pass Pierce Ranger Station	25 2	1S 36N	24W	6570 3080
15B13A	1	Granite Peak	4	42N	8E	6000	14C4	I	Savage Pass	18	36N	5E 15E	6170
16B5A	1	Kellogg Peak	19	48N	3E	5560	15C4S	Ī	Shanghai Summit	7	37N	6E	4600
15B2S	I	Lookout	4	47N	6E	5140	16C18	Ι	Soldier Meadows	33	33N	3W	4650
16B1	Ι	Lower Sands Creek	32	51N	1W	3120	16C19	1	Webb Creek	36	33N	$3^{1}_{2}W$	4720
16A4AS	1	Mosquito Ridge	5	54N	2E	5200							
15B5A	1 I	Roland Summit Sherwin	26	47N	6E	5120	1		SALMON RIVE	R			
16C1S 15B9AS	I	Sunset	, 28 33	42N 49N	1E 5E	3200 5540	13E19	Ι	Above Gilmore	1.2	1 3N	26E	8240
1307110	-	ounder.	رر	47N	26	JJ40	13E21A	1	Aspen-Hall Pass	13 6	16N	28E	8200
							16E11S	Ī	Bear Basin	30	19N	3E	5350
							15E2S	I	Big Creek Summit	24	15N	5E	6580
							13E8A	I	Borah	21	10N	2.3E	8250
							16D6	Ι	Brundage Mountain	6	19N	3E	7560
							13E17	1	Copes Camp	36	18N	22E	7520
							13E25A 13D2	I M	Double Springs Pass Gibbons Pass	3	10N 2S	22E 19W	8400 7100
							13E20	I	Hall Creek	1	25 16N	27E	7560
							13E24A	ī	Leatherman Pass	20	9 N	23E	9860
							13E1	M	Lemhi Pass	9	108	15W	7480
							13E23S	M	Lemhi Ridge	4	10S	15W	8100
							13E18S	Ι	Meadow Lake	26	13N	26E	9150
							14E1S	Ι	Mill Creek Summit	8	13N	17E	8800
							13D16S	1	Moose Creek	14	27N	21E	6200
							14E4S 13E26	1 1	Morgan Creek Morse Creek Sawmill	31 8	18N 15N	19E 23E	7600 7120
							13E26 14D5	I	Perreau Meadows	23	21N	20E	8500
							14E7	I	Redfish Lake Flat	35	10N	13E	6560
							13E16	I	Schwartz Lake	34	18N	22E	8540
							14E3A	1	Twin Peaks	28	15N	17E	9190
							14F4S	Ι	Vienna Mine	1	5 N	13E	
							14D4 .	Ι	Williams Creek Summit	34	21N	20E	7990

LEGEND

10J7	Snow course	only
10J7A	Snow course	and/or aerial marker
10J7S	Snow course	and snotel site
10J7R	Radioactive	gage

MIDDLE SNAKE RIVER BASIN NORTHSIDE



JSDA-SCS-PORTLAND, OR. 1980 M7-0 L-22023-;

INDEX to SNOW COURSES

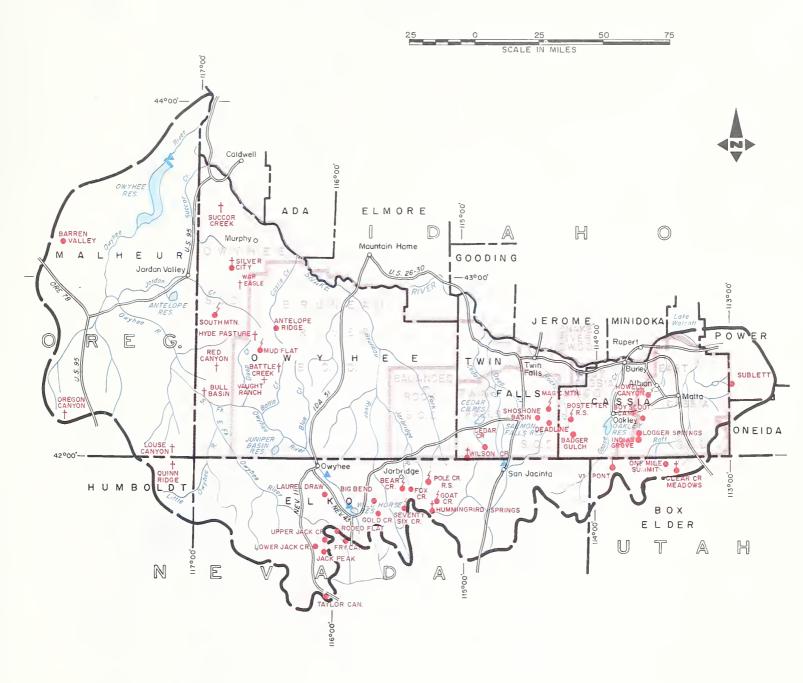
MIDDLE SNAKE RIVER BASIN NORTHSIDE

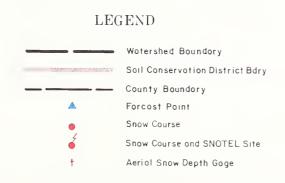
No.	State Name	Sec.	Twp. or And	Rge.	Elev	No.	Sta	te Name	Sec.	Twp. or And	Rge.	Elev
LITTLE LOST RIVER								BOISE RIVER	(cont.)		
13E5 13E10S 13E3 13E6S 13E4 13E7	1 Fairview Guard Station I Hilts Creek I Lost-Garfield I Moonshine I Sawmill Canyon I Wet Creek Summit	27 15 3 31 17 15	12N 8N 11N 13N 12N 8N	26E 25E 26E 26E 26E 25E	6750 8000 6600 7440 7000 7680	14F10 16F1 15F14SR 15E9S 15F1SR 15F6S 15F3 15F5SR	1 I I I I I I	Couch Summit Deadman Gulch Graham Guard Station Jackson Peak Moores Creek Summit Prairie Road Creek Trinity Mountain	9 29 9 7 19 13 5	2N 7N 7N 8N 7N 2N 5N 3N	14E 4E 10E 9E 7E 7E 8E 9E	6840 5600 5690 7070 6100 4800 5380 7770
13F3S 13F2 13F20 13F8 13F11 13F12	I Bear Canyon 1 Copper Basin I Dry Fork 1 Fishpole Lake I 1ron Bog I Leadbelt	22 26 23 28 23 34	5N 6N 3N 4N 4N	21E 21E 23E 22E 22E 23E	7900 7640 7220 9300 7650 6700	15F7S 15F12	I I	CANYON C Bennett Mountain Little Camas Flat PAYETTE R	7 21	2S 1S	9E 9E	6560 4940
14F3S 14F2S	I Lost Wood Divide 1 Stickney Mill BIG WOOD	25 9 R I V F R	6N 6N	18E 19E	7900 7430	15E11S 16F2 15E8SR	1 I I	Banner Summit Bogus Basin Cozy Cove	11 16 17	11N 5N 11N	10E 3E 7E	7040 6340 5380
15F9 15F15 14F8S 14F1 14F6S 14F12S 14F5 14F16S	1 Camas Creeks Divide I Chimney Creek 1 Dollarhide Summit 1 Galena I Galena Snotel 1 Galena Summit I Graham Ranch 1 Hyndman Creek	11 9 9 4 4 7 10 2	2S 1N 3N 6N 6N 6N 5N 4N	9E 12E 15E 15E 15E 15E 17E 19E	5710 6400 8420 7440 7470 8780 6270 7440	15E3 15E10 15E4S 15E1 16E1 15D1S 15D2 16E3	1 1 1 1 1 1 1	Crawford Ranger Station Deadwood Airstrip Deadwood Summit Lake Fork Rock Flat Summit Secesh Summit Squaw Meadow Tripod Summit	21 8 13 3 1 4 17	14N 11N 14N 18N 18N 21N 21N 11N	4E 7E 7E 4E 2E 4E 4E 3E	4860 5360 6860 5290 5310 6520 5900 5260
14F7 14F9 14F11	1 Mascot Mine I Mount Baldy 1 Soldier Ranger Station	8 23 29 D RIVE	4N 4N 2N	20E 17E 14E	7780 8920 5740	16D1 16E2 16E5S 16D8S	I 1 1	WEISER RIT Boulder Creek Placer Creek Squaw Flat West Branch	VER 16 15 32	20N 17N 17N 20N	1W 3W 2E 1W	5440 5860 6240 5560
13F4S 13F5 13F9RS	I Garfield Ranger Station I Muldoon I Swede Peak	11 26 4	3N 3N 3N	21E 21E 21E	6560 6320 7640	6E10S	I	MANN CR Bear Saddle		15N	5W	6180
13F10 13F6	FISH CR I Iron Mine Creek I Telfer Ranch	33 7	3N 2N	23E 23E	6300 5840	16E9 17E1 16E8 17E2	I 1 I I	Mann Creek Robinson Creek Ridge Sturgill Ridge Thorson Cabin	20 2 28 12	15N 14N 15N 14N	5W 6W 5W 6W	6080 6220 6680 5320
15F4S 15F2 16F4	BOISE R I Atlanta Summit 1 Bad Bear 1 Bogus Basin Road	23 35 32	5N 7N 5N	10E 6E 3E	7580 4940 5540							

LEGEND

10J7		. 1
1007	Snow course	only
10J7A	Snow course	e and/or aerial marker
10J7S	Snow course	and snotel site
10J7R	Radioactive	gage

MIDDLE SNAKE RIVER EASIN SOUTHSIDE







DA-SCS-PORTLAND, OR. 1980 M7-0 L-22023-3

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

			Sec.	Twp.	Rge.	
No.	State	Name	Lat.	And	Long.	Elevation
		RAFT RIVER				
13G2	I	Boy Scout Camp	8	14S	24E	7740
13H2	Ū	Clear Creek Meadows	26	14N	14W	9420
13G1S	I	Howell Canyon	2	13S	24E	7980
13G4	I	Indian Grove	14	15S	23E	7560
13G3	I U	Logger Springs One Mile Summit	2	15S	23E	8120
13H1 12G8	I	Sublett	17 17	14N 12S	14W 30E	7330 5950
		GOOSE - TRAPPER	CREEK			
1/62	т.			150	100	05.00
14G3 14G1S	I	Badger Gulch Bostetter Ranger Station	24 35	15S 14S	19E 19E	6660 7500
13H3A	Ü	Vi Pont	17	14N	17W	7670
		SALMON FALLS O	CREEK			
14G5	I	Cedar Creek	26	15S	13E	6800
14G4	I	Deadline	25	14S	18E	6900
15H13S	N	Goat Creek	31	46N	60E	8880
14G2S	I	Magic Mountain	25	14S	18E	6880
14G6 15G2	I	Shoshone Basin Wilson Creek	24 24	14S 16S	17E 12E	5810 7500
1302	1			100	120	7300
		BRUNEAU RIV	ER			
15H1S	N	Bear Creek	31	46N	58E	8040
15H2	N	Fox Creek	33	46N	58E	6750
15H15	N	Hummingbird Springs	12	45N	59E	8870
15H14S 15H3S	N N	Pole Creek Ranger Station Seventy-six Creek	13 6	46N 44N	50E 58E	8360 7100
131130		OWYHEE RIVE			302	, 200
16G6	I	Antelope Ridge	35	8S	1W	6140
18F5 16G9A	0 I	Barren Valley Battle Creek	26 10	17S 11S	38E 1E	4200 5720
15H4	N	Big Bend	30	45N	56E	6700
16G10A	I	Bull Basin	29	12S	5W	5460
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5A	I	Hyde Pasture	31	8S	2W	5760
16H4	N	Jacks Peak	28 20	42N	53E	8420 6700
16H5 17G4∧	N O	Laurel Draw Louse Canyon	27	45N 40S	53E 44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7S	I	Mud Flat	34	98	2W	5730
17G5∧	0	Oregon Canyon	9	40S	40E	6950
17H6A	N	Quinn Ridge	9	47N	41E	6300
16G11A	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3 16G1S	I I	Silver City South Mountain	7 35	5S 7S	3W 5W	6400 6500
16F6A	I	Succor Creek	25	7.S 3.S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12A	I	Vaught Ranch	10	11S	1W	5950
16G13A	Ι	War Eagle	20	5S	3W	7280

LEGEND

10J7	Snow	course	only	7			
10J7A	Snow	course	and/	or/	aer:	la1	marker
10J7S	Snow	course	and	sno	te1	sit	te
10.17R	Radio	pactive	9296				

Aeriol Snow Depth Goge

USDA-SCS-PORTIAND OF 1000 M7-01 -22003

INDEX to SNOW COURSES

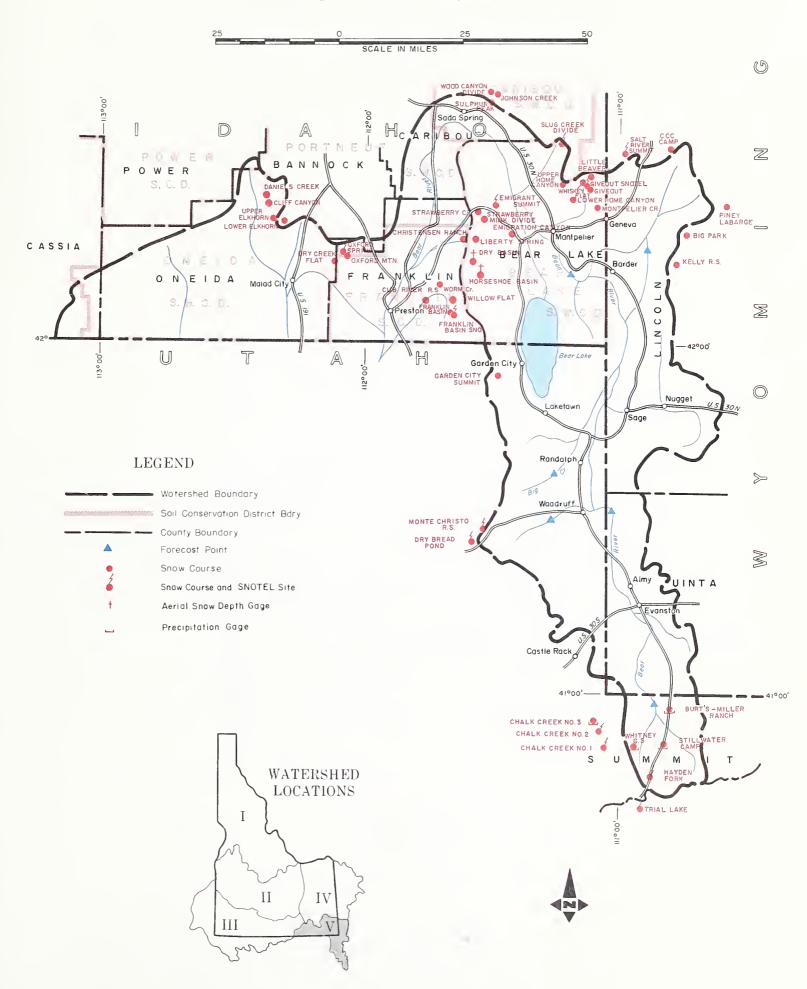
UPPER SNAKE RIVER BASIN

No.	Stote	Nome	Sec.	Twp.	Rge.	P1		· ·		Sec.	Twp.	Rge.	12.1
NO .	State	e Name	Lat.	And	Long.	Elev	No.	Stal	te Name	Lat.	And	Long.	Elev
SNAKE RIVER-WYOMING									CAMAS-BEAVE	R CREE	K		
10G4	-	Afton Ranger Station	30	32N	118W	6200	11E11	Ι	Blue Ledge Mine	21	13N	38E	6900
10F1		Arizona	3	46N	115W	6850	12E3	I	Camp Creek	21	13N	36E	6580
10E8 10F2S	_	Aster Creek Base Camp	44 ⁰ 17 ' 20	46N	110°38' 113W	7700 6900	11E17S 11E12	I	Crab Creek Kilgore	21 6	13N 12N	38E 39E	6860 6200
10F2S	_	Blackrock	4	44N	111W	8600	11512	Т	Kiigote	U	1211	375	0200
10G2S	_	Blind Bull	6	34N	115W	8750			MEDICINE LOD	GE CRE	EΚ		
10F14		Bryan Flat	9	38N	115W	6250				200		0.00	7005
10G7 10G5S		CCC Camp Cottonwood Lake	9 25	29N 31N	118W 118W	7500 7500	12E4 12E5	I	Irving Creek Webber Creek	20 23	13N 12N	33E 32E	7035 6700
10E10S	_	Coulter Creek	44 ⁰ 09 '		110°33'		1263	1	webber creek	23	1211	321	0700
10F17	-	East Rim Divide	32	37N	111W	7950			WILLOW C	REEK			
10F6	_	Four Mile Meadows	35	45N	112W	7770							
10E13	_	Glade Creek	12	48N	116W	7200	11F10	I I	Aspen Grove	36 36	2N 2N	41E	6500
10F18 10F19S	-	Greys Boundary Gros Ventre Summit	33 36	37N 40N	118W 111W	5800 8750	11F3 11F8	I	Birch Creek Bone	29	2N 1S	41E 40E	6800 6200
10G3	_	Grover Park Divide	27	33N	118W	7500	11F16	Ī	Brockman Station	19	28	43E	6430
10E14	-	Huckleberry Divide	32	48N	115W	7300	11F15	I	Hell Creek	27	18	42E	7350
10E9S	-	Lewis Lake Divide	44 ⁰ 13		110°40'	7900	11F14	Ι	Mud Creek	4	2S	39E	7100
10F4	_	Moran Pay	8 & 17		114W	6800	11F11SR		Sheep Mountain	30 36	2S 1N	41E 41E	6570 6650
10F3 10G6	_	Moran Bay Poison Meadows	14 29	45N 30N	116W 116W	6800 8500	11F5SR	Ι	Tex Creek	36	TIN	41E	0030
10G8S	_	Salt River Summit	32	29N	118W	7900			D C C T. O. T.	011/50			
10E12	Wy	Snake River Station	9	48N	115W	6780			BLACKFOOT	RIVER			
10F20	-	Snow King Mountain #3	4	40N	117W	7600	11G3	Ι	Austin Brothers Ranch	28	7S	4 3E	6400
10E7	-	Thumb Divide	44 ⁰ 22		110°35'	7900	11F17	1	Blue Ridge	35 4	2S 9S	39E	6780 6730
10F9S 10F5	-	Togwotee Pass Turpin Meadows	29 14	44N 45N	110W 112W	9600 6930	11G22 11G5S	I I	Johnson Creek Slug Creek Divide	15	10S	43E 44E	7225
10G1A	-	Young's Ranch	26	34N	116W	6530	11G1S	Ī	Somsen Ranch	25	5S	43E	7000
		5					11G19	Ι	Sulphur Peak	8	9S	43E	7070
		HENRY'S FORK	RIVER	?			11G23	Ι	Wood Canyon Divide	5	9S	43E	7450
11E9S 11E35S	I M	Big Springs Black Bear	4 27	13N 15S	44E 5E	6400 7950			FORT PORTNE	JF RIV	ΕŔ		
11E18		Black Canyon	11	13N	45E	7960	12G7	Ι	Beaverdam Creek	22	10S	38E	6120
11E19	I	Black Moose	33	14N	45E	8160	12G16	I	Cold Springs	15	7S	37E	7000
10E15S	-	Grassy Lake	6	48N	117W	7230	12G5	Ι	Dempsey Creek	18	10S	38E	6100
11E10S 11E16	I I	Island Park Latham Springs	28 9	13N 13N	43E 45E	6290 7630	11G24 12G6	I	East Creek Lower Pebble	26 7	10S 8S	38E 38E	7000 5780
11E14	I	Lucky Dog	2	13N	43E 44E	6860	12G6 12G1	I	Mink Creek	33	7S	34E	6410
11E32	I	Sawtell Mountain	7	14N	43E	8720	12G2	I	Pebble Creek	34	7S	37E	6550
11E34	I	Targhee Pass	32	16N	44E	6980	12G14	Ι	Putnam	2	6S	37E	7220
11E8	I	Valley View	12	15N	43E	6680	11G17	Ι	Sedgwick Peak	30	10S	39E	7850
11E36	Ι	White Elephant	17	14N	43E	7710	12G15 12G17S	I	Toponce Wildhorse Divide	23 4	6S 8S	37E 34E	6160 6490
		TETON RI	VER				1201,5		WIIdiolog Divido		0.5	3.5	0170
10F21	Wy	Darby Canyon	28	43N	118W	8250							
10F22	Wy	Freds Mountain	12	44N	118W	8150							
11F13	I	Garns Mountain	20	4N	44E	8300							
10F25 10F26	Wy Wy	Indian Meadows Jackpine Creek	31 15	46N 46N	117W	8240							
11F12	I	McRenolds Reservoir	5	46N 7N	118W 46E	7350 6720							
10F23S	Wy	Phillips Bench	43031		110°55 '	8200							
11F2	I	Pine Creek Pass	24	3N	44E	6810							
11F1	I	State Line	32	3N	46E	6660							
10F13	Wy	Teton W.S.	43 ^o 30'		110°59 '	7740							

LEGEND

10J7	Snow course	only
10J7A	Snow course	and/or aerial marke
10J7S	Snow course	and snotel site
10J7R	Radioactive	gage

GREAT BASIN



USDA-SCS-PORTLAND, OR. 1980 M7-OL-22023-5

INDEX to SNOW COURSES

GREAT BASIN

			Sec.	Twp.	Rge.	
No.	State	Name	Lat.	And	Long.	Elevation
		BEAR RIVER	₹			
10G11 11H13P 11G7 11H7P 10J6P 10J7P 10G12 11H12P 10G10 10J17P 10J28P	Wy U 1 U U U Wy U Wy U	Big Park Dry Bread Pond Emigration Canyon Garden City Summit Burts-Miller Ranch Hayden Fork Kelly Ranger Station Monte Cristo R. S. Pincy LaBarge Stillwater Camp Whitney G. S.	7 19 24 35 19 1 13 3 19 32	27N 8N 12S 14N 3N 1S 26N 8N 29N 2N	117W 4E 42E 4E 10E 9E 118W 4E 114W 10E 9E	8700 8230 6500 7600 7900 9300 8200 8960 8850 9300
		MONTPELIER C	DEEK			, , , ,
11G16 11G25S 11G20 11G27 11G18 11G26 11G21	1 I I I I	Giveout Giveout Snotel Little Beaver Lower Home Canyon Montpelier Creek Upper Home Canyon Whiskey Flat	2 2 27 17 14 31 26	12S 12S 11S 12S 12S 11S 11S	45E 45E 45E 45E 45E 45E 45E	6840 6930 6970 7640 6540 8560 6960
		MINK CREE	K			
11G11 11G14A 11G6S 11G15A 11G13 11G9 11G10	I I 1 1 I I	Christensen Ranch Dry Basin Emigrant Summit Horseshoe Basin Liberty Spring Strawberry Creek Strawberry Mink Divide	27 30 21 31 7 9	13S 13S 12S 13S 13S 13S	41E 42E 42E 42E 42E 41E 41E	5560 7820 7390 8000 8600 5820 6720
		CUB RIVER				
11G12 11G8 11G2S 11G4 11G28	1 I I 1	Cub River Ranger Station Franklin Basin Franklin Basin Sno Willow Flat Worm Creek	9 1 7 11 28	158 168 168 158 148	41E 41E 42E 41E 41E	5450 8040 8170 6070 6620
		MALAD RIVE	R			
12G13 12G12 12G4 12G11 12G3 12G18S 12G10	I 1 1 1 1	Cliff Canyon Daniels Creek Dry Creek Flat Lower Elkhorn Oxford Mountain Oxford Spring Upper Elkhorn	13 11 33 30 27 27 25	12S 12S 13S 12S 13S 13S 12S	35E 35E 37E 36E 37E 37E 35E	7200 6270 6360 6960 6800 6740 7140

LEGEND

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage
10J7P	Precipitation gage

DETACH HERE)

IMPORTANT NOTICE

WATER SUPPLY OUTLOOK FOR IDAHO

If you wish to continue to receive this publication, detach this page, sign your name in the space below, fold on the heavy line, staple or tape the folded page and mail. If more than one copy of the publication is desired, place the number in the box by your signature.

	Signed:
Suggestions, comments or	remarks:
	Print or type your name and address on back of this sheet if it is not there already

(FOLD HERE)



RETURN IF NOT DELIVERED

UNITED STATES
DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
304 N. 8th. ST. ROOM 345
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID U.S. DEPARTMENT OF AGRICULTURE AGR-101



FIRST CLASS MAIL

SNOW SURVEY SUPERVISOR SOIL CONSERVATION SERVICE 304 N. 8th ST. ROOM 345 BOISE, IDAHO 83702

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ROOM 345

304 N. 8TH ST. BOISE, IDAHO 83702 OFFICIAL BUSINESS PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGRICUL 101



FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"

USDA NATIONAL AGRICULTURAL LIBRARY CURRENT SERIAL RECORD BELTSVILLE, MARYLAND 20705